

H2
Sub
I/11

with a nucleotide sequence selected from the group consisting of the nucleotide sequences as set forth in SEQ ID No. 1 to 6 under the condition of 5 x SSC and 50°C or the condition of 2 x SSC and 50°C, and which protein transfers an aromatic aryl group to flavonoid.

46. (Amended) The gene according to claim 1, wherein the anthocyanin acyltransferase transfers an aromatic acyl group to the glucose of the 3 or 5 position of anthocyanin.

H3
cont'd
Sub
I/11

47. (Amended) The gene according to claim 2, wherein the gene encodes an anthocyanin acyltransferase which transfers an aromatic acyl group to the glucose at the 3 or 5 position of anthocyanin.

48. (Amended) The gene according to claim 5, wherein the anthocyanin acyltransferase transfers an aromatic acyl group to the glucose at the 3 or 5 position of anthocyanin.

49. (Amended) The gene according to claim 7, wherein the anthocyanin acyltransferase transfers an aromatic acyl group to the glucose at the 3 or 5 position of anthocyanin.

Application No. 08/894,356
Attorney's Docket No. 001560-308
Page 3

50. (Amended) The gene according to claim 8, wherein the anthocyanin acyltransferase transfers an aromatic acyl group to the glucose at the 3 or 5 position of anthocyanin.

H3
Sub 12
div 2

51. (Amended) The gene according to claim 28, wherein the anthocyanin acyltransferase transfers an aromatic acyl group to the glucose at the 3 or 5 position of anthocyanin.

52. (Amended) The gene according to claim 42, wherein the gene encodes an anthocyanin acyltransferase which transfers an aromatic acyl group to the glucose at the 3 or 5 position of anthocyanin.

H4
Sub 12
div 2

53. (Amended) An isolated acyltransferase gene which encodes an anthocyanin acyltransferase.